





Created: 2 weeks, 6 days after earthquake

PAGER

Version 6

M 5.7, 49 km SSE of Madang, Papua New Guinea

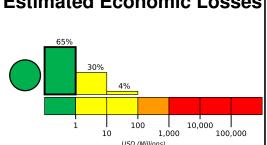
Origin Time: 2023-10-07 16:20:36 UTC (Sun 02:20:36 local) Location: 5.6578° S 145.8990° E Depth: 65.8 km

Estimated Fatalities 10,000

1,000

and economic losses. There is a low likeli-

Green alert for shaking-related fatalities Estimated Economic Losses hood of casualties and damage.



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	1,366k*	1,607k	1k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

Structures 5000 10000 Overall, the population in this region resides in struc-145.1°E 146.2°E tures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction. **Historical Earthquakes** Madang

Date

(UTC)

2005-06-04

1993-08-20

1993-10-16

Selected City Exposure

Dist. Mag.

6.1

6.1

6.3

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

(km)

127

345

48

Max

MMI(#)

VII(27k)

VIII(13k)

VII(75k)

from GeoNames.org MMI City **Population** I۷ Madang 27k IV Kainantu 9k IV Goroka 19k IV Kundiawa 9k IV Mini <1kШ Lae 76k Ш Mount Hagen 34k Ш Rauna <1kШ **Bulolo** 16k Ш Wau 15k

bold cities appear on map.

(k = x1000)

Shaking

Deaths

0

3

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us6000ldv4#pager

Event ID: us6000ldv4